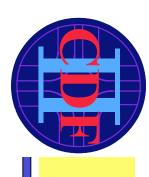
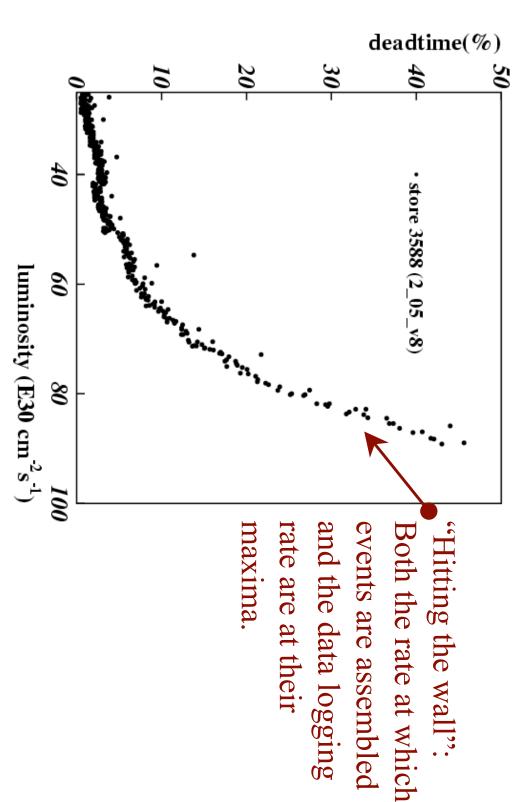


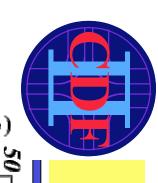
CDF Operations Report

Rob Harr
June 28, 2004
All Experimenters Meeting

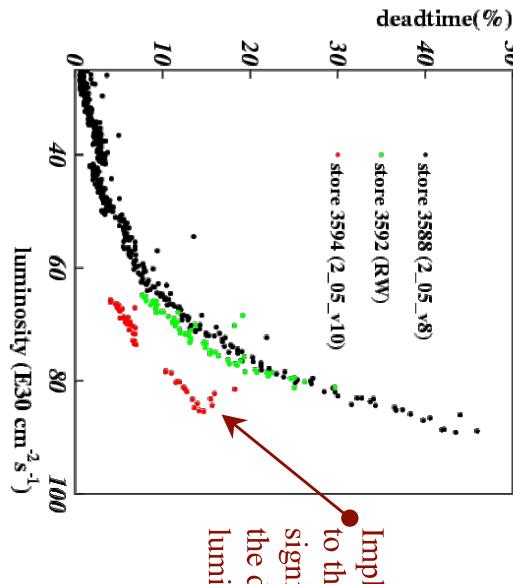


Deadtime





Deadtime Reduction



Implemented changes to the trigger table, significantly reducing the deadtime at high luminosity.

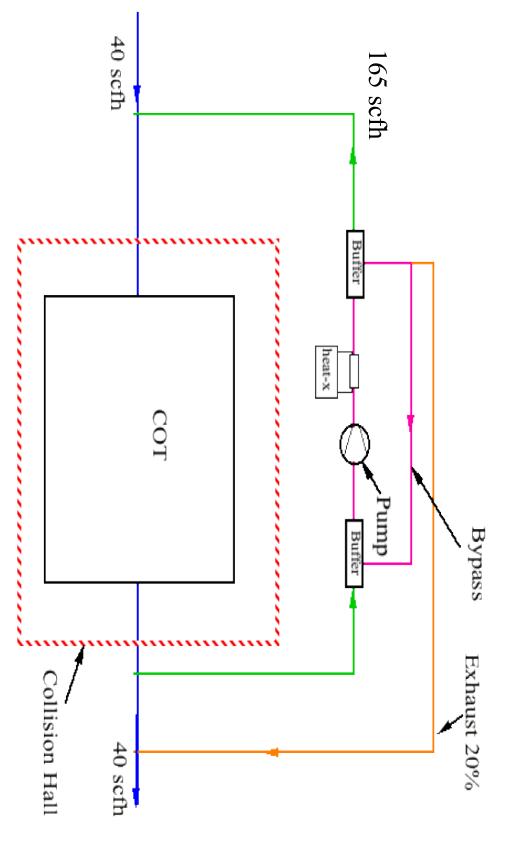


This Week's Stores

| | 14552 (78%) | 18719 | | | Total |
|-------------------|----------------------------------|--------------------------------------|-----------------------|-------|---------|
| LOSTP, Earthquake | 1436 (78%) (94%) | 1832 (1527) | 78.5e30 | 3596 | Su 6/27 |
| pulsar | 2646 (75%) | 3527 | 88.5e30 | 3594 | Sa 6/26 |
| CHL, quench | 2042 (76%) | 2694 | 90.6e30 | 3592 | Fr 6/25 |
| PSMX, 2 Si trips | 2899 (79%) | 3656 | 89.2e30 | 3589 | We 6/23 |
| Road warrior | 2853 (83%) | 3334 | 91.8e30 | 3588 | Tu 6/22 |
| b0cmp00 | 2676 (73%) | 3676 | 89.5e30 | 3586 | Mo 6/21 |
| Comment | Lum to tape nb ⁻¹ (ε) | Delivered Lum [nb ⁻¹] | Inst Lum (initial) | Store | Date |

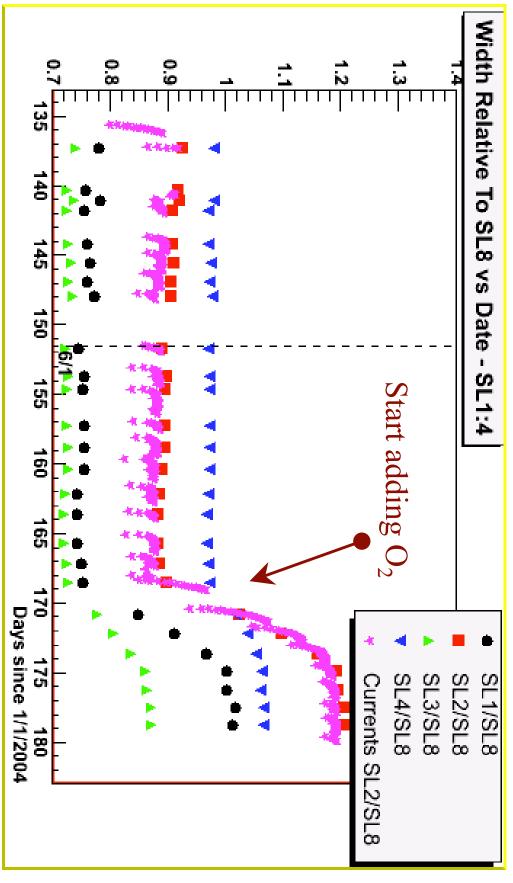


COT Gas Recirculation



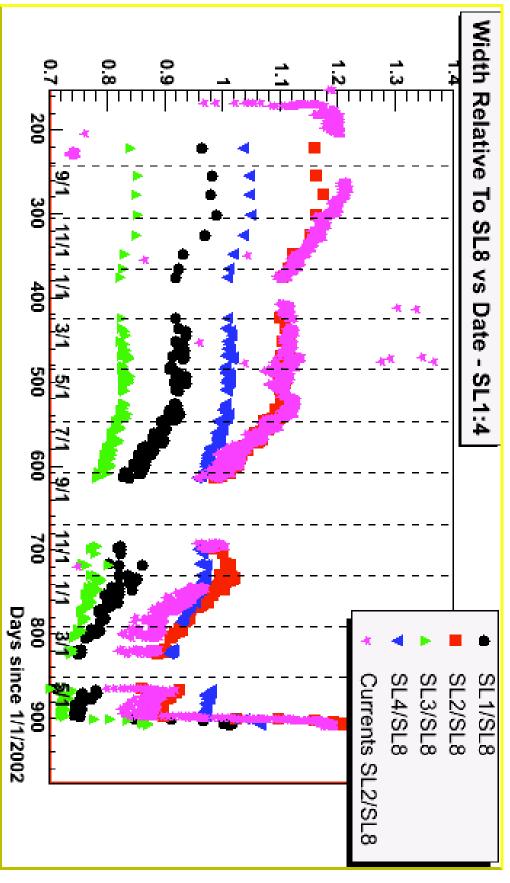


COT Recovery



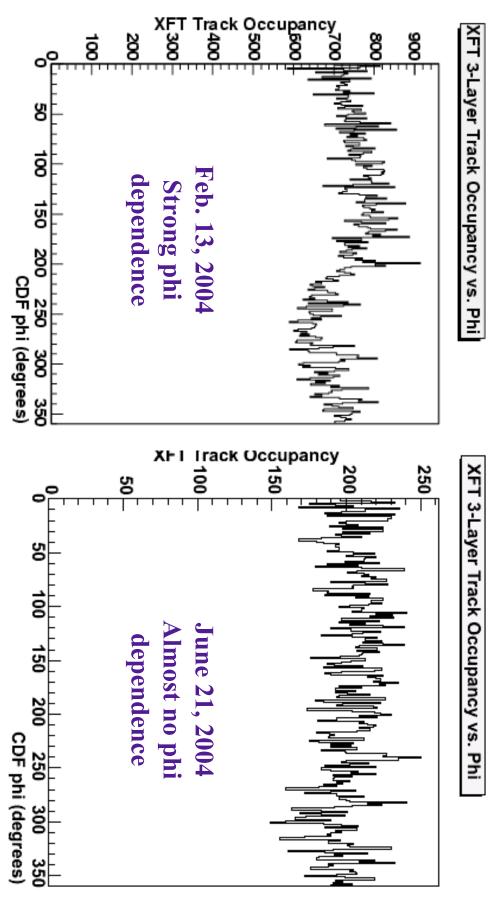


COT Back to 2002 Gain!





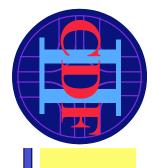
Track Finding vs. phi





Other Work

- Accesses:
- Went in twice to work on CMX muon chambers
- measurements Moved Bonner spheres back in the hall to complete neutron flux
- We are analyzing the results of the beam aborts with elevated abort gap levels performed last week.
- Thanks to the AD for providing us with this very helpful information.
- We will report on the results when the analysis is ready.



Summary

- The pulse widths and currents in the COT are back to their 2002 levels!
- We are focused much more on efficiency now.
- trigger improvements no longer keep up: The luminosity has reached a level where simple
- Event builder and data logger are at their limits
- We have significantly reduced deadtime:
- cut harder to improve purity,
- dynamically prescale more triggers, or
- apply a fixed prescale.
- This was a record week for CDF!